

Date: Fri, 23 Apr 93 11:51:02 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #493  
To: Info-Hams

Info-Hams Digest                      Fri, 23 Apr 93                      Volume 93 : Issue 493

Today's Topics:

(none)

16 Touch Tone Generator Needed  
Daily Solar Geophysical Data Broadcast for 22 April  
DX BULLETIN 20 ARLD020  
MFJ-1278 SSTV \*.PCX Format  
no-code defense  
ORBS\$114.2liners  
Passed Exam... need sugge  
Rabbit Video Amps.

Recommendation needed: Antenna Tuner and any Vertical(GP) antenna (2 msgs)

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

-----

Date: 23 Apr 93 14:44:14 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: (none)  
To: info-hams@ucsd.edu

Subject: \* SpaceNews 26-Apr-93 \*

SB NEWS @ AMSAT \$SPC0426  
\* SpaceNews 26-Apr-93 \*

BID: \$SPC0426

=====  
SpaceNews  
=====

MONDAY APRIL 26, 1993

SpaceNews originates at KD2BD in Wall Township, New Jersey, USA. It is published every week and is made available for unlimited distribution.

\* STS-55 NEWS \*

=====

The primary goals of the STS-55 mission are to perform studies in materials and life science research. A 9 day flight of Space Shuttle Columbia is planned. Launch is scheduled for 24-Apr-93 at 14:52 UTC.

The following are the prelaunch predicted elements for STS-55, provided by Robert Kliman at JSC. STS-55 will also carry SAREX and should provide more opportunities for contacts, especially packet. On this flight there are two amateur radio antennas, one in the flight deck window and one external antenna on the spacelab module in the payload bay.

STS-55

1	00055U	93114.67000478	.00120200	00000-0	36300-3	0	69	
2	00055	28.4697	267.1108	0003812	314.2100	45.8202	15.90487610	22

Satellite: STS-55

Catalog number: 00055

Epoch time: 93114.67000478 = (24 APR 93 16:04:48.41 UTC)

Element set: JSC-006

Inclination: 28.4697 deg

RA of node: 267.1108 deg Space Shuttle Flight STS-55

Eccentricity: .0003812 Prelaunch Keplerian Elements

Arg of perigee: 314.2100 deg Launch: 24 APR 93 14:52 UTC

Mean anomaly: 45.8202 deg

Mean motion: 15.90487610 rev/day G. L. Carman

Decay rate: 1.2020e-03 rev/day\*2 NASA Johnson Space Center

Epoch rev: 2

G.L.CARMAN

The seven person crew on STS-55 includes ham radio operators Steve Nagel, N5RAW, Jerry Ross, N5SCW, Charlie Precourt, KB5YSQ, Hans Schlegel, DG1KIH and Ulrich Walter, DG1KIM. SAREX operations planned on this flight includes 2-meter voice and packet. The primary voice callsign will be

N5RAW. The packet radio callsign is W5RRR-1.

The 2-meter FM voice and packet downlinks for the SAREX station are on 145.550 MHz.

Uplinks are:	Voice	Packet
Europe	144.80 144.75 144.70	144.49
Rest of World	144.99 144.97 144.95 144.93 144.91	144.49

Note: The crew will not favor any specific voice uplink frequency, so your ability to communicate with SAREX will be the "luck of the draw."

For all operations, Earth stations should listen to the downlink frequency and transmit only when the Shuttle is in range and the astronauts are on the air. Listen for any instructions from the astronauts as to specific uplink frequencies in use during the current pass. Also, listen to the uplink frequencies before transmitting to avoid interference to other users.

In addition to the U.S. SAREX ham gear in the Shuttle mid-deck, an additional ham radio station will be flown in the German spacelab module. This station, designated SAFEX (for Spacelab Amateurfunk-Experiment), includes a 2-meter FM downlink and a 70-cm FM uplink capability. A dual band (2-meter/70-cm) external antenna, mounted on the German spacelab module, will be used for SAFEX contacts. Payload Specialists Schlegel and Walter expect to make a few scheduled contacts with European schools with this equipment.

The externally mounted SAFEX antenna gives the SAREX team an opportunity to compare the performance of the U.S. SAREX window mounted antenna to an externally mounted antenna. A special A/B antenna test is planned on orbits 61 and 62 using the normal SAREX downlink frequency, 145.550 MHz. During orbit 61 the crew will transmit using the SAREX window antenna and on orbit 62 the crew will use the SAFEX external antenna. Individuals in the Southeastern U.S. are welcome to help participate in this test by taking signal strength readings of the received signal for both orbit passes.

[Info via Gary Morris, KK6YB, and Frank Bauer, KA3HDO]

\* ARSENE LAUNCH DELAY \*

=====

Bernard, F6BVP and Michel F2GM, report that an accident damaged the omnidirectional antenna of the ASTRA satellite, thus the Ariane V56 launch is delayed 10 days if the antenna is repairable, or 3 weeks if it must be replaced.

[Info by James P. Dugal, N5KNX]

\* MESSAGE FROM MIR \*

=====

In a packet radio communications exchange between Mir cosmonauts and Amateur Radio operator Dave Larson, N6JLH, cosmonaut Alex recently conveyed the following thoughts:

Children are our future and we are ready for a dialog with them. Today (12-Apr-93) we are involved in the French experiments "Illuzion" and "Viminal". Systems on-board Mir are working well.

I am the EVA engineer. Gennadiy Manakov is the test pilot. I have a daughter, Lyouba, 13 years old. Gennadiy has a daughter, 16, and a son, Alexsey, 8. We would also like for our children to make friends with others through communication with others. We are travelling around the world every 90 minutes at an altitude of 400 kilometers. The Earth is very beautiful, and is home for us all.

Best 73, Alex

Joe Dreifuss, WA2GSY, reports the cosmonauts were busy with EVA activities scheduled on April 19, 23, and 27th.

\* PHASE 3D FREQUENCIES \*

=====

At the P3D transponder meeting in Muenchen (Germany), the following frequencies were chosen for the P3D satellite:

Downlink frequencies ( Satellite to Earth )

1. 10 GHz ( 3cm )      10.451000 - 10.451500 GHz
2. 2.4 GHz ( 13 cm )   2400.500 - 2400.900 MHz
3. 435 MHz ( 70 cm )    436.000 - 436.400 MHz
4. 29 MHz ( 10 m )      29.310/29.320/29.330/29.340/29.350 MHz  
    one frequency selected by the control station.

Uplink frequencies ( Earth to Satellite )

1. 1.2 GHz ( 23 cm ) A: 1269.000 - 1269.500 MHz  
B: 1269.500 - 1270.000 MHz
2. 435 MHz ( 70 cm ) A: 435.200 - 435.700 MHz  
B: 436.000 - 436.500 MHz
3. 145 MHz ( 2 m ) 145.800 - 145.975 MHz

All bands except the 29 MHz band are switched in a matrix and allow any configuration of operational modes. Minor last minute changes or additions are still possible if necessary depending on transponder builders. A more detailed frequency plan will be distributed as soon as all final technical details are available.

[Info via Freddy de Guchteneire ON6UG, IARU Satellite Coordinator]

\* FEEDBACK/INPUT WELCOMED \*

=====

Mail to SpaceNews should be directed to the editor (John, KD2BD) via any of the following paths:

FAX : 1-908-747-7107  
UUCP : ...catfish.ocpt.ccur.com!ka2qhd!kd2bd  
PACKET : KD2BD @ NN2Z.NJ.USA.NA  
INTERNET : kd2bd@ka2qhd.ocpt.ccur.com -or- kd2bd@amsat.org

MAIL : John A. Magliacane, KD2BD  
Department of Engineering and Technology  
Advanced Technology Center  
Brookdale Community College  
Lincroft, New Jersey 07738  
U.S.A.

<<= SpaceNews: The first amateur newsletter read in space! -=>>

/EX

--

John A. Magliacane, KD2BD \* /\ \* Voice : 1-908-224-2948  
Advanced Technology Center |/\| Packet : KD2BD @ NN2Z.NJ.USA.NA  
Brookdale Community College |\/\| Internet: kd2bd@ka2qhd.ocpt.ccur.com  
Lincroft, NJ 07738 \* \/\ \* Morse : -. -.. ..--- -... -..

-----

Date: Thu, 22 Apr 1993 12:49:27 EDT  
From: anomaly.sbs.com!n1mpq!news@uunet.uu.net  
Subject: 16 Touch Tone Generator Needed

To: info-hams@ucsd.edu

hoff@cbnewsd.cb.att.com (julie.a.Finkey) writes:

```
> I am looking for a device which will generate all 16 (sixteen)
> available Touch Tones for an application I have.
> A portable device which can generate the extra 4 TT signals
> over a calls' voice path would be great.
>
> In some applications, there are phones which
> have these buttons:
>
> 1  2  3  F0
> 4  5  6  F
> 7  8  9  I
> *  0  #  P
>
> The F0, F, I, P buttons are used to specify urgency
> of certain types of calls. The frequencies generated
> by the F0, F, I and P buttons are what I need.
>
> If you can let me know how I can buy (best choice) or
> build (next best choice) such a device, please
> respond to this newsgroup or call.
```

If you can get ahold of an old WE 2500 set, the touch-tone pad can be modified to generate those four extra tones, otherwise known as A,B,C,D.

Anyone else out there remember the mod?

Tony

```
-----
-- Anthony S. Pelliccio, kd1nr/ae    // Yes, you read it right, the //
-- system @ garlic.sbs.com          // man who went from No-Code //
-----// (Thhhppptt!) to Extra in //
-- Flame Retardent Sysadmin        // exactly one year! //
-----
-- This is a calm .sig! --
-----
```

```
-----
Date: 23 Apr 93 03:36:36 GMT
From: news-mail-gateway@ucsd.edu
Subject: Daily Solar Geophysical Data Broadcast for 22 April
To: info-hams@ucsd.edu
```

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 112, 04/22/93  
10.7 FLUX=117.1 90-AVG=130 SSN=134 BKI=4333 2333 BAI=015  
BGND-XRAY=B2.0 FLU1=9.9E+05 FLU10=1.3E+04 PKI=4332 3343 PAI=017  
BOU-DEV=050,031,035,022,018,027,037,032 DEV-AVG=031 NT SWF=01:004  
XRAY-MAX= M1.5 @ 1411UT XRAY-MIN= B1.7 @ 1036UT XRAY-AVG= B3.3  
NEUTN-MAX= +001% @ 1745UT NEUTN-MIN= -003% @ 1920UT NEUTN-AVG= -0.2%  
PCA-MAX= +0.1DB @ 2355UT PCA-MIN= -0.3DB @ 1950UT PCA-AVG= -0.0DB  
BOUTF-MAX=55411NT @ 0015UT BOUTF-MIN=55364NT @ 1758UT BOUTF-AVG=55393NT  
GOES7-MAX=P:+204NT@ 2014UT GOES7-MIN=N:-005NT@ 0915UT G7-AVG=+094,+041,+011  
GOES6-MAX=P:+202NT@ 1824UT GOES6-MIN=N:-116NT@ 0225UT G6-AVG=+109,-013,-052  
FLUXFCST=STD:120,120,125;SESC:120,120,125 BAI/PAI-FCST=010,010,015/012,010,015  
KFCST=2225 4221 2224 3221 27DAY-AP=008,011 27DAY-KP=2322 2232 3232 3323  
WARNINGS=\*MAJFLR;\*SWF  
ALERTS==\*MINFLR:M1.5/SB@1411UTC,RGN7477;\*MAGSI:12NT@0617UTC  
!!END-DATA!!

NOTE: The Effective Sunspot Number for 21 APR 93 was 47.4.  
The Full Kp Indices for 21 APR 93 are: 4o 4o 5+ 4o 3o 4+ 3+ 3o

-----  
Date: Fri, 23 Apr 93 05:30:34 GMT  
From: dog.ee.lbl.gov!hellgate.utah.edu!cs.utexas.edu!zaphod.mps.ohio-state.edu!  
mstar!n8emr!bulletin@network.UCSD.EDU  
Subject: DX BULLETIN 20 ARLD020  
To: info-hams@ucsd.edu

=====  
| Automatic relayed from packet radio via |  
| N8EMR's Ham BBS, 614-895-2553 |  
=====

ZCZC AE46  
QST DE W1AW  
DX BULLETIN 20 ARLD020  
FROM ARRL HEADQUARTERS  
NEWINGTON CT APRIL 22, 1993  
TO ALL RADIO AMATEURS

THANKS TO BOB, W5KNE QRZ DX CHOD, VP2ML AND THE DX BULLETIN FOR  
THE ITEMS IN THIS WEEK'S BULLETIN.

UGANDA. JIM, KF7E, HAS JOINED THE 5X1XA/5X1XB DXPEDITION, ALTHOUGH  
HE HAS YET TO RECEIVE HIS OWN CALL SIGN. THIS OPERATION IS SLATED  
FOR APRIL 27 THROUGH MAY 12. JIM, 5X1B, HAS BEEN ON 20 METER CW  
RECENTLY.

ETHIOPIA. ET3DX, BY JH1AJT AND DJ9ZB AND ET3TI BY OH8MVT CONTINUE

TO BE ACTIVE. SID, ET3SID, SHOWS UP MAINLY ON WEEKENDS WITH RTTY.

MADAGASCAR. 5R8DP OPERATED BY JA10EM WILL BE FINISHING UP THIS WEEKEND, THOUGH HE HOPES TO WORK STATESIDE ON 80 METERS BEFORE LEAVING.

SAINT CHRISTOPHER AND NEVIS ISLANDS. LOOK FOR JACK, KB8WC BRUCE, N8LXS AND SCOTT, K080, TO BE ACTIVE FROM APRIL 29 THROUGH MAY 5. ALTHOUGH PLANS ARE FOR AN ALL BAND EFFORT, EXTRA ATTENTION WILL BE PAID TO 40 AND 80 METER CW.

BOSNIA/HERZEGOVINA. 4N4XX SAYS THAT STATIONS IN BOSNIA WILL BEGIN USING CALL SIGNS WITH THE PREFIX T9 SOMETIME IN MAY.

PACIFIC JOURNEY. JAKOB, HB9TL, WILL BE TOURING THE PACIFIC DURING MAY AND JUNE. HERE ARE SOME OF THE PLANNED STOPS:

PAPUA NEW GUINEA, AS P29TL, FROM MAY 5 THROUGH 13,  
SOLOMON ISLANDS FROM MAY 16 THROUGH 19,  
VANUATU FROM MAY 21 THROUGH 26,  
FIJI, AS 3D2TL, FROM MAY 27 THROUGH JUNE 2,  
WALLIS ISLAND, AS FW/HB9TL, FROM JUNE 3 THROUGH 8,  
TONGA FROM JUNE 10 THROUGH 13,  
WESTERN SAMOA FROM JUNE 14 THROUGH 17, AND  
AMERICAN SAMOA AS KH8/HB9TL FROM JUNE 18 THROUGH 20.

THIS WEEKEND ON THE RADIO. WITH BIG GUNS GALORE ATTENDING THE DAYTON HAMVENTION THIS WEEKEND, COMPETITION ON THE BANDS MAY BE A LITTLE LESS STEEP THIS WEEKEND.

THE HELVETIA CONTEST, SPONSORED BY THE SWISS AMATEUR SOCIETY USKA, RUNS FOR 24 HOURS STARTING 1300Z SATURDAY. LOOK FOR BOTH CW AND PHONE ACTIVITY ON THE NON-WARC HF BANDS AND 160 METERS. FOR MORE DETAILS, CHECK OUT CONTEST CORRAL ON PAGE 106 OF APRIL QST.

SUNDAY THE 25TH IS INTERNATIONAL MARCONI DAY, IN COMMEMORATION OF GUGLIELMO MARCONI'S BIRTHDAY IN 1874.

NNNN

-----  
Date: Fri, 23 Apr 1993 06:31:10 GMT  
From: dog.ee.lbl.gov!hellgate.utah.edu!cs.utexas.edu!usc!howland.reston.ans.net!  
darwin.sura.net!gatekeeper.es.dupont.com!esds01.es.dupont.com!  
COLLINST%esvx19.es.dupont.com@network.UCSD.EDU  
Subject: MFJ-1278 SSTV \*.PCX Format  
To: info-hams@ucsd.edu

Looking for other MFJ-1278 owners who use the SSTV mode.

I tried using a program called PaintSHP to convert some GIF & BMP files to PCX format. When I tried to load them under the convert program in the MFJ-1289 Ver. 2.2 program it would not accept them as "PCX" formatted files.

What I'm looking for is some guidance on how to convert GIF, BMP, RLE and TIF files to the PCX format required by the MFJ-1289 program.

73,

Tom WI3P collinst@esvax.dnet.dupont.com

73, Thomas Collins WI3P, (wi3p.ampr.org [44.66.0.2] New Castle, Delaware)

collinst@esvax.dnet.dupont.com or collinst@holonet.net

\*\*\*\*\* The comments, opinions, belief, sentiment, views & scribblings \*\*\*\*\*  
\*\*\*\*\* above this signature are mine, and mine alone. They do not \*\*\*\*\*  
\*\*\*\*\* reflect the E.I. DuPont de Nemours Co., Inc., its subsidiaries \*\*\*\*\*  
\*\*\*\*\* and/or its partners nor its employees or shareholders. \*\*\*\*\*

-----  
Date: 20 Apr 93 19:31:46 GMT  
From: naucse!navvax.ucc.nau.edu:miked@arizona.edu  
Subject: no-code defense  
To: info-hams@ucsd.edu

I am currently a no-code (N7YIR). I plan to upgrade as soon as I am finished with school. My wife and I are both full-time students and we have two kids so I do not have a lot of "extra" time to study code. As it is, I barely have enough time to talk on my radio. The no-code entry for me was perfect because I have wanted to be an amateur for quite some time, but did not have the time to study code. Once I heard about the no-code, I took advantage of it and got my license. I do a lot of traveling back and forth to the Phoenix area, (Mesa) so I felt much more secure using a radio that I know would work if I got into trouble, (unlike CB). My father is an original Tech (KA7PMI), he's the one that got me interested.

I just wanted to defend myself since there seems to be a lot of flaming to no-codes. I understand the importance of code and do plan on upgrading as soon as I can. Not all of us are bad. Try to be patient and smile a little more-life is much easier then. Thanks for the "rebuttal"  
73, Mike

-----

Date: 23 Apr 93 18:39:57 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: ORBS\$114.2liners  
To: info-hams@ucsd.edu

SB KEPS @ AMSAT \$ORBS-114.N  
2Line Orbital Elements 114.AMSAT

HR AMSAT ORBITAL ELEMENTS FOR AMATEUR SATELLITES IN NASA FORMAT  
FROM N3FKV HEWITT, TX April 24, 1993  
BID: \$ORBS-114.N

DECODE 2-LINE ELSETS WITH THE FOLLOWING KEY:

1 AAAAAU 00 0 0 BBBB.BBBBBBBB .CCCCCCCC 00000-0 00000-0 0 DDDZ  
2 AAAAA EEE.EEEE FFF.FFFF GGGGGG HHH.HHHH III.IIII JJ.JJJJJJJKKKKKZ  
KEY: A-CATALOGNUM B-EPOCHTIME C-DECAY D-ELSETNUM E-INCLINATION F-RAAN  
G-ECCENTRICITY H-ARGPERIGEE I-MNANOM J-MNMOTION K-ORBITNUM Z-CHECKSUM

TO ALL RADIO AMATEURS BT

AO-10

1 14129U 83 58 B 93110.83020735 -.00000079 00000-0 99999-4 0 9865  
2 14129 27.0593 29.4473 6005901 75.0293 340.9550 2.05885733 74087  
UO-11

1 14781U 84 21 B 93111.55828724 .00000407 00000-0 73433-4 0 4116  
2 14781 97.8162 140.4510 0011630 172.7910 187.3460 14.68958297488401  
RS-10/11

1 18129U 87 54 A 93111.86932329 .00000088 00000-0 89554-4 0 6013  
2 18129 82.9211 280.2363 0012877 109.6041 250.6492 13.72314731292122  
AO-13

1 19216U 88 51 B 93105.54243488 -.00000089 00000-0 99999-4 0 5945  
2 19216 57.7595 321.9747 7247958 312.8860 5.7215 2.09719719 37041  
FO-20

1 20480U 90 13 C 93104.62795728 -.00000017 00000-0 -95474-5 0 4438  
2 20480 99.0503 332.8302 0540219 230.5473 124.6636 12.83218756149160  
AO-21

1 21087U 91 6 A 93111.92446036 .00000084 00000-0 82656-4 0 7433  
2 21087 82.9382 94.4666 0034805 175.9115 184.2316 13.74515869111711  
RS-12/13

1 21089U 91 7 A 93111.61252696 .00000083 00000-0 81623-4 0 3998  
2 21089 82.9223 324.0792 0028556 200.3485 159.6531 13.74020349110750  
UO-14

1 20437U 90 5 B 93111.24883257 .00000185 00000-0 79690-4 0 7418  
2 20437 98.6175 196.1576 0011317 353.9287 6.1756 14.29762714169294  
AO-16

1 20439U 90 5 D 93108.24222238 .00000220 00000-0 93570-4 0 5514  
2 20439 98.6225 194.0101 0011790 2.2555 357.8675 14.29822555168879  
DO-17

1 20440U 90 5 E 93106.69796634 .00000233 00000-0 97885-4 0 5538  
 2 20440 98.6252 192.6811 0011769 5.5210 354.6103 14.29956664168660  
 W0-18  
 1 20441U 90 5 F 93112.26444196 .00000190 00000-0 81457-4 0 5565  
 2 20441 98.6235 198.2176 0012322 351.1639 8.9324 14.29939397169466  
 L0-19  
 1 20442U 90 5 G 93104.64323764 .00000177 00000-0 76228-4 0 5527  
 2 20442 98.6258 190.8418 0012813 11.6396 348.5063 14.30025641168385  
 U0-22  
 1 21575U 91 50 B 93109.74923692 .00000219 00000-0 80915-4 0 2519  
 2 21575 98.4773 186.7939 0008086 109.7335 250.4724 14.36813214 92270  
 K0-23  
 1 22077U 92 52 B 93070.30867943 .00000000 00000-0 99999-4 0 940  
 2 22077 66.0779 169.1155 0009657 210.7767 149.2671 12.86276851 27252  
 NOAA-9  
 1 15427U 84123 A 93113.07834197 .00000130 00000-0 79176-4 0 3568  
 2 15427 99.1067 152.2949 0014785 327.1411 32.8859 14.13505705430990  
 NOAA-10  
 1 16969U 86 73 A 93113.29404317 .00000100 00000-0 51116-4 0 1959  
 2 16969 98.5206 129.9301 0014023 113.0407 247.2264 14.24793465342814  
 MET-2/17  
 1 18820U 88 5 A 93109.44227915 .00000113 00000-0 95582-4 0 8667  
 2 18820 82.5383 245.6276 0016091 295.4367 64.5128 13.84679936263716  
 MET-3/2  
 1 19336U 88 64 A 93109.46504936 .00000043 00000-0 99999-4 0 365  
 2 19336 82.5357 263.4940 0015950 242.7419 117.2079 13.16957512227481  
 NOAA-11  
 1 19531U 88 89 A 93113.28622786 .00000195 00000-0 12552-3 0 1007  
 2 19531 99.1264 88.0072 0010974 232.7217 127.2953 14.12864519235923  
 MET-2/18  
 1 19851U 89 18 A 93111.05345277 .00000098 00000-0 82332-4 0 8019  
 2 19851 82.5219 120.4843 0014686 338.1579 21.8952 13.84330980209283  
 MET-3/3  
 1 20305U 89 86 A 93110.71554309 .00000043 00000-0 99999-4 0 7072  
 2 20305 82.5605 205.4210 0013417 253.4221 106.5427 13.16016718167549  
 MET-2/19  
 1 20670U 90 57 A 93110.72299007 .00000101 00000-0 84825-4 0 5535  
 2 20670 82.5465 184.0182 0014616 255.0138 104.9405 13.84171953142173  
 FY-1/2  
 1 20788U 90 81 A 93110.78168807 .00000210 00000-0 16262-3 0 5496  
 2 20788 98.8719 138.7327 0015352 101.7072 258.5807 14.01315545134545  
 MET-2/20  
 1 20826U 90 86 A 93111.04613092 .00000105 00000-0 89754-4 0 5585  
 2 20826 82.5274 121.8626 0013279 144.4873 215.7172 13.83545262129384  
 MET-3/4  
 1 21232U 91 30 A 93111.05916489 .00000043 00000-0 99999-4 0 3563  
 2 21232 82.5454 108.1465 0017061 169.7407 190.4066 13.16822363 95807  
 NOAA-12

```

1 21263U 91 32 A 93113.29425367 .00000224 00000-0 11835-3 0 5551
2 21263 98.6607 144.3520 0013523 17.5701 342.5944 14.22243068100842
MET-3/5
1 21655U 91 56 A 93111.06268628 .00000043 00000-0 99999-4 0 4141
2 21655 82.5514 54.8561 0012815 167.4626 192.6807 13.16818653 80906
HUBBLE
1 20580U 90 37 B 93111.25439674 .00001033 00000-0 90921-4 0 790
2 20580 28.4688 71.1478 0004503 162.1007 197.9769 14.92598492163001
GRO
1 21225U 91 27 B 93112.81187683 .00034234 00000-0 23031-3 0 8727
2 21225 28.4675 340.2556 0003740 279.1191 80.9154 15.73643066116528
TUBSAT
1 21577U 91 50 D 93112.70861477 .00000201 00000-0 75732-4 0 2515
2 21577 98.4775 189.3228 0007022 103.0743 257.1221 14.36366914 92673
UARS
1 21701U 91 63 B 93097.95076452 .00000193 00000-0 27251-4 0 2454
2 21701 56.9796 103.0153 0004355 121.8870 238.2611 14.96572993 85788
FREJA
1 22161U 92 64 A 93111.42003405 .00000155 00000-0 98172-4 0 1259
2 22161 63.0047 279.2530 0769709 277.7618 73.6742 13.21619951 26058
/EX

```

-----

-----

Date: Thu, 22 Apr 1993 12:45:18 EDT  
 From: anomaly.sbs.com!n1mpq!news@uunet.uu.net  
 Subject: Passed Exam... need sugge  
 To: info-hams@ucsd.edu

Vern.Suter@f100.n282.z1.tdkt.kksys.com (Vern Suter) writes:

```

> Buy used. There's lots out there, although 2m handhelds seem a little
> scarce. See if you can meet some members of a local 2m repeater club
> and tell them you're looking for equipment and advice. I've found
> everyone very, very helpful and gotten invaluable advice on what to
> buy and what not to buy.

```

You forgot to mention that he should check out rec.radio.swap since alot of stuff goes through there. But the problem is that with Dayton right around the corner, people are holding out. But, contact kd1hz@anomaly.sbs.com since he has a Kenwood TH-27A 2m HT for \$250.

```

> PNC> I would like to do something with 2-meters, since that seems
> PNC> really popular, but I am unsure of anything else.
>
> I have HF privileges but have still found 2 meters a great place to
> start because of the ease of making contacts and the lower starting

```

> investment.

True, and the other thing to mention is 70cm.

> PNC> Now if the call will only get here! (BTW... what is the current  
> PNC> license delay [my test was administered by ARRL/VEC] ?)  
>  
> I just received my Tech Plus upgrade on April 19. It arrived after a  
> little over a three months wait.

Wow... it's appx. 8 weeks out here in 1 land.

> PNC> (I know, I know... LEARN THAT CODE! [I am, but slowly... time  
> PNC> restraints! :)])  
>  
> Learn the code ;-)) It's a very nice feeling of accomplishment and even  
> after you get HF privileges, if you only work phone, that gives you a  
> very small slice of the spectrum. CW at least gives me more bands to  
> work until I get my general.

Hey, go all the way and get ALL the privs you can within the bands. :)

Tony

```
-----  
-- Anthony S. Pelliccio, kd1nr/ae      // Yes, you read it right, the //  
-- system @ garlic.sbs.com            // man who went from No-Code  //  
-----// (Thhhppptt!) to Extra in    //  
-- Flame Retardent Sysadmin          // exactly one year!          //  
-----  
-- This is a calm .sig! --  
-----
```

-----  
Date: Tue, 20 Apr 93 20:45:43 PDT  
From: agate!howland.reston.ans.net!usc!sdd.hp.com!ncr-sd!crash!fatcity!  
don@ames.arpa  
Subject: Rabbit Video Amps.  
To: info-hams@ucsd.edu

Has anyone seen a kit or plans for an amplifier for a Rabbit video/audio transmitter? I would like to find one if one can be had. I've heard that Pauldon assc. Makes one but I enjoy building things. I'm also interested in building one for the Micro atv transmitter that was issued in "73" magazine. I have info for the PA-5 amp that was made for the Micro Atv xtmr. But, again I would like to make my own. Any help would be appreciated. Thanks de

Don N6NLX./

--

don@fatcity.cts.com (Don Hamiel)

Fat City Software BBS -- (619) 484-7683

UUCP: ...crash.cts.com!fatcity!don OR ...telesoft.com!fatcity!don

-----  
Date: Thu, 22 Apr 1993 23:33:26 GMT

From: dog.ee.lbl.gov!pasteur!agate!howland.reston.ans.net!zaphod.mps.ohio-state.edu!hobbes.physics.uiowa.edu!news.iastate.edu!song@network.UCSD.EDU

Subject: Recommendation needed: Antenna Tuner and any Vertical(GP) antenna

To: info-hams@ucsd.edu

Hi, netter.

I am about to purchase a Vertical(GP) antenna for 7, 14, 21, 28 MHz and an antenna tuner for that.

I saw ad about Cushcraft's R-7 and Butternut's vertical.

Any recommendation on any vertical antenna for HF and a tuner welcome.

Thanks in advance.

Chang Song, HL5BGB.

-----  
Date: Fri, 23 Apr 1993 01:04:03 GMT

From: dog.ee.lbl.gov!pasteur!agate!howland.reston.ans.net!zaphod.mps.ohio-state.edu!moe.ksu.ksu.edu!osuunx.ucc.okstate.edu!olesun!gcouger@network.UCSD.EDU

Subject: Recommendation needed: Antenna Tuner and any Vertical(GP) antenna

To: info-hams@ucsd.edu

In article <C5ws3r.KIv@news.iastate.edu> song@iastate.edu (Chang-Hyeon Song) writes:

>Hi, netter.

>I am about to purchase a Vertical(GP) antenna for 7, 14, 21, 28 MHz and an  
>antenna tuner for that.

>I saw ad about Cushcraft's R-7 and Butternut's vertical.

I have had a R7 about a month and like it fine. It went to geather in about a hour from opening the box till getting it up. The swr is better than the specifications. I operates as an end fed half wave and should have a lower angle of radiation than a quarter wave such as the butternut.

I have a MFJ 941 D it works. I am looking for a better one as in most things in life you get what you pay for and the MFJ is a fair deal for the money. You can generally find a nubmber of tunners at ham fest.

One mans opinion.  
Gordon

Gordon Couger  
Agriculture Engineering Oklahoma State University  
114 Ag Hall, Stillwater, OK 74074  
gcouger@olesun.agen.okstate.edu 405-744-9763 day 624-2855 evenings

-----  
Date: Fri, 23 Apr 1993 01:44:05 GMT  
From: pacbell.com!uop!csus.edu!netcom.com!wa2ise@network.UCSD.EDU  
To: info-hams@ucsd.edu

References <6333@gold.gvg.tek.com>, <C5wEyp.29s@odin.corp.sgi.com>,  
<1r6qliINNrr4@rave.larc.nasa.gov>  
Subject : Re: CQ DX

In article <1r6qliINNrr4@rave.larc.nasa.gov> kludge@grissom.larc.nasa.gov (Scott Dorsey) writes:

>Yes, with the new Ronco CLIP-O-TRON transmitter, you can work all the bands  
>at the same time. By generating a square wave with an infinite number of  
>harmonics, you can transmit everywhere, and with our new WHITE NOISE VFO,  
>you can even transmit on all the frequencies within those bands.

>

And you'll also be sure to get a "QSL" card from the FCC!

73 de wa2ise  
:

-----  
Date: Wed, 21 Apr 1993 17:28:32 -0500  
From: agate!msuinfo!uchinews!spssig.spss.com!news.oc.com!utacfd.uta.edu!rwsys!  
ricksys!lawton!red.uucp!terry@ames.arpa  
To: info-hams@ucsd.edu

References Re:, YAESU, FT-767GXacbe  
Reply-To : terry%red@lawton.lonestar.org  
Subject : Re: YAESU FT-767GX

In <B4E09DE520A139AF@gmr.com>, A15SEA%ANDV02@gmr.COM writes:  
>I'm currently in the market for a All Mode Transceiver w/ a built-in antenna  
>tuner. I'm currently thinking about buying a used FT-767GX at the Dayton Ham  
>fest next weekend. ANY Comments for or against this radio uch appreciated

I have had two of them. The first was destroyed by lightening three years  
after I bought it. Since its full replacement value was covered by my

insurance I was in a position to buy a replacement. I looked long and hard, considering all other brands, but finally settled on another FT-767GX.

Its a heck of a good rig. I have it on the bookshelf in my office and use it for 2 meters and all HF bands. I consistently get great signal reports. Its voice quality is often commented on. Of course it doesn't hurt that I have a TH7DXX at the other end of the coax. 73 Terry

--

DOMAIN: terry%red@lawton.lonestar.org (Terrence R. Redding)

UUCP: . . . !rwsys!lawton!red!terry (Terrence R. Redding)

PACKET: WB5LMJ @ WB5MJS.OK.USA.NA

Voice 405 536-8822, Ben's Place (Benjamin Franklin) BBS 536-6988 9p to 6a

PhD candidate, University of Oklahoma in Adult and Higher Education

Educational Advisor, American Radio Relay League

221 SW Crystal Hills Drive, Lawton, Oklahoma 73505

-----

End of Info-Hams Digest V93 #493

\*\*\*\*\*